

another embodiment of the invention;

Figure 3 shows a system and details of a receiver device in accordance with an embodiment of the invention;

5

Figure 4 shows a sender device in accordance with an embodiment of the invention; and

Figures 5-12 illustrate various embodiments of the invention.

10

DETAILED DESCRIPTION

The subject-matter contained in the introductory portion of this patent application may be used to support the detailed description. In the following the File Delivery over Unidirectional Transport (FLUTE) protocol is used as an example without an intention to limit the present invention to involve FLUTE only. Any other suitable protocol capable of one-to-many multicast or broadcast file delivery is also applicable here.

20 US-patent application entitled "*AN APPARATUS, SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR RELIABLE MULTICAST TRANSPORT OF DATA PACKETS*" (serial number ~~XXXXX,XXX~~^{10/748,948}) filed on December 24, 2003, having the same assignee as the present application presents methods for reliable multicast transport of data packets. The contents of that application are fully incorporated herein by reference.

US-patent application entitled "*IDENTIFICATION AND RE-TRANSMISSION OF MISSING PARTS*" (serial number ~~XXXXX,XXX~~^{10/778,926}) filed on February 13, 2004, having the same assignee as the present application presents methods for identifying and re-transmitting missing data in a system capable of one-to-many transmission. Also the contents of that application are fully incorporated herein by ref-